

**SC-IF/IC**  
**(IN-FLOOR/IN-CEILING)**

**SUBWOOFER**

**SUBCONTRACTOR™ SERIES**

**INSTALLATION  
MANUAL**



# IMPORTANT SAFETY INSTRUCTIONS



**CAUTION**  
**RISK OF ELECTRIC SHOCK**  
**DO NOT OPEN**



## Caution

To reduce the risk of electric shock, do not remove cover (or back). No user-serviceable parts inside. Refer servicing to qualified service personnel.

The lightning flash with arrowhead symbol is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the subwoofer.

1. **Read Instructions** — All safety and operating instructions should be read before the product is operated.
2. **Retain Instructions** — The safety and operating instructions should be retained for future reference.
3. **Heed Warnings** — All warnings on the product and in the operating instructions should be adhered to.
4. **Follow Instructions** — All operating and use instructions should be followed.
5. **Water and Moisture** — The product should not be used near water — for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, near a swimming pool or the like.
6. **Carts and Stands** — The product should be used only with a cart or stand recommended by the manufacturer.
7. **Wall or Ceiling Mounting** — The product should be mounted to a wall or ceiling only as recommended by the manufacturer.
8. **Ventilation** — The product should be situated so that its location or position does not interfere with its proper ventilation. For example, the product should not be situated on a bed, sofa, rug, or similar surface that may block the ventilation openings; or placed in a built-in installation such as a bookcase or cabinet that may impede the flow of air through the ventilation openings.
9. **Heat** — The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products that produce heat.
10. **Power Sources** — The product should be connected to a power supply only of the type described in the operating instructions or as marked on the product.
11. **Grounding or Polarization** — This product may be equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.
12. **Power-Cord Protection** — Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point at which they exit from the product.
13. **Cleaning** — The product should be cleaned only as recommended by the manufacturer.
14. **Nonuse Periods** — The power cord of the product should be unplugged from the outlet when left unused for a long period of time.
15. **Object and Liquid Entry** — Care should be taken so that objects do not fall and liquids are not spilled onto the enclosure.
16. **Damage Requiring Service** — The product should be serviced by qualified service personnel when:
  - a. The power-supply cord or plug has been damaged.
  - b. Objects have fallen or liquid has been spilled into the product.
  - c. The product has been exposed to rain.
  - d. The product does not appear to operate normally or exhibits a marked change in performance.
  - e. The product has been dropped or damaged.
17. **Servicing** — The user should not attempt to service the product beyond what is described in the operating instructions. All other servicing should be referred to qualified service personnel.
18. **Lightning** — For added protection for the product during a lightning storm or when it is left unattended and unused for long periods of time, unplug it from the wall outlet.
19. **Overloading** — Do not overload wall outlets, extension cords or integral convenience receptacles as this can result in a risk of fire or electric shock.

**CAUTION:** To prevent electrical shock, match wide blade of plug to wide slot, fully inserted.

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## PRODUCT OVERVIEW

The SC-IF/IC (In-Floor/In-Ceiling) is the first floor/ceiling sub to deliver true reference quality performance. The SC-IF/IC sports a powerful 12" driver and expanded sealed cabinet enabling maximum performance to reproduce the most demanding home theater and music with authority, accuracy and low distortion. The SC-IF/IC is easy to install whether it's for new construction or retrofit – four adjustable brackets are included that can be attached anywhere on the cabinet surface. The SC-1250, a rack-mountable amplifier that powers the SC Series, features 3000 watts dynamic / 1250 watts RMS power and can easily drive twin SC-IF/IC subs using standard speaker wire.

The SC-IF/IC can be installed in a variety of locations and positions for a given installation. The SC-IF/IC can be used in-floor, in ceiling, or in other applications – all that is required is a sturdy stud frame to mount to and a way to mount a decorative grille. The woofer cabinet is 14" wide so ideally installs with 16" joist spacing. However, spacer boards can be used to adapt the SC IF/IC to any application.

This document provides the detailed process for properly installing the SC-IF/IC. The user's manual for the SC-1250 subwoofer amplifier provides the details on connectivity and proper configuration of the SC-IF/IC after installation. Note that two SC-IF/IC subwoofers can be driven with a single SC-1250 amplifier. **IT IS STRONGLY RECOMMENDED THAT ONLY THE SC-1250 AMPLIFIER BE USED WITH THE SC-IF/IC.**

### ***A Word About Grilles***

The SC-IF/IC comes with a permanently attached protective metal grille. This is intended to protect the driver from debris falling into it in in-floor installation situations. No register or decorative grille is provided – the installer must determine the location of the subwoofer and what is to be used as a register or other decorative grille to hide the subwoofer enclosure after the installation is complete.

## INSTALLATION – STEP-BY-STEP

### Step 1 -

Determine installation location. As stated above, the SC-IF/IC can be mounted virtually anywhere. The only requirements are that the cabinet fit into the location, and that there be proper venting for the audio to be passed into the listening environment.

### Step 2 -

Mark installation location. It is useful to place the subwoofer cabinet in its proposed position and mark the locations of the four brackets that will be used to affix the subwoofer to the framing. Note that the brackets can be mounted ANYWHERE on the subwoofer cabinet, as long as the brackets do not interfere with the woofer's operation. Always use all four brackets in the installation. It is recommended that the cabinet be positioned flush with the face of the joists for ease of positioning and installation, but this is not required. Make sure the speaker terminals are facing the direction you intend to run the speaker wire.

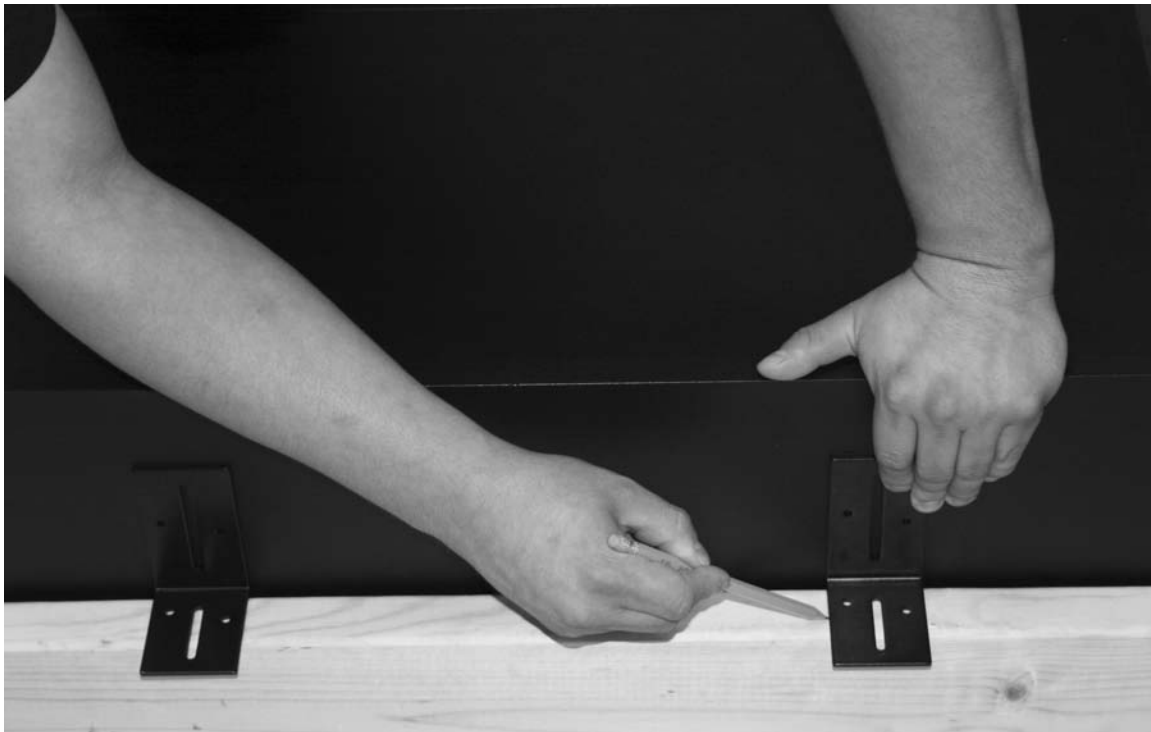


Figure 1: Mark bracket locations with a pencil.

**Note: The brackets can be attached anywhere on the SC-IF/IC cabinet.**

### **Step 3 -**

Determine and mark grille location. From the centerline of the subwoofer driver, mark off the dimensions of the grille opening to accommodate the decorative grille chosen for the end user installation.

### **Step 4 -**

Prepare the installation location. Make whatever modifications are required to enable the subwoofer to fit in the installation location. Note that the SC-IF/IC is designed for joists on 16" centers. Install spacer studs as required to accommodate this dimension.

### **Step 5 -**

Attach the mounting brackets. Attach the mounting brackets to the cabinet as indicated in step 2.



*Figure 2: Mount brackets on subwoofer cabinet.*

## Step 6 -

Attach the PSA-sided foam strips to the subwoofer cabinet. MAKE SURE STRIPS ARE USED ANYWHERE THE CABINET WILL COME INTO CONTACT WITH THE STRUCTURE IN ANY WAY. The SC-IF/IC is a powerful subwoofer and will likely buzz or rattle if not isolated from the structure using the provided foam strips.

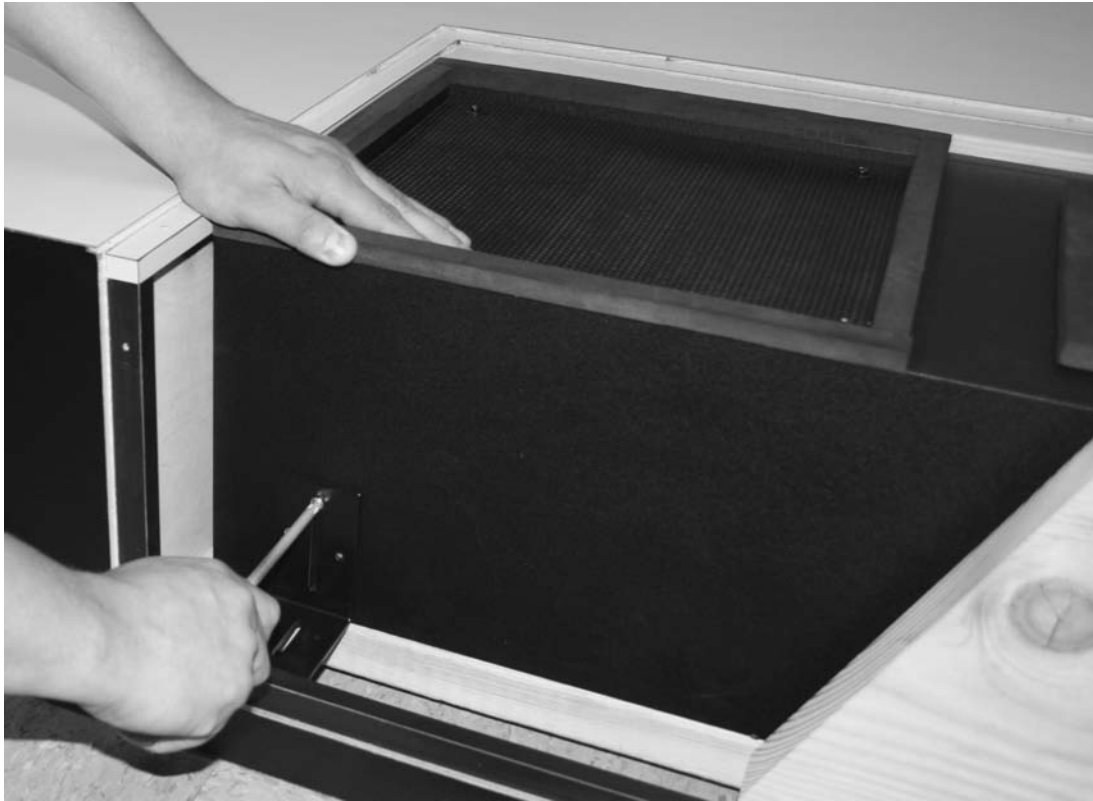


*Figure 3: Affix foam strips.*

## Step 7 -

Install. Place the SC-IF/IC as determined in step two and attach the brackets loosely.

**CAUTION:** The SC-IF/IC is heavy. Either use a partner to suspend the subwoofer while you are attaching it or use a mechanical device to hold it in place during installation.

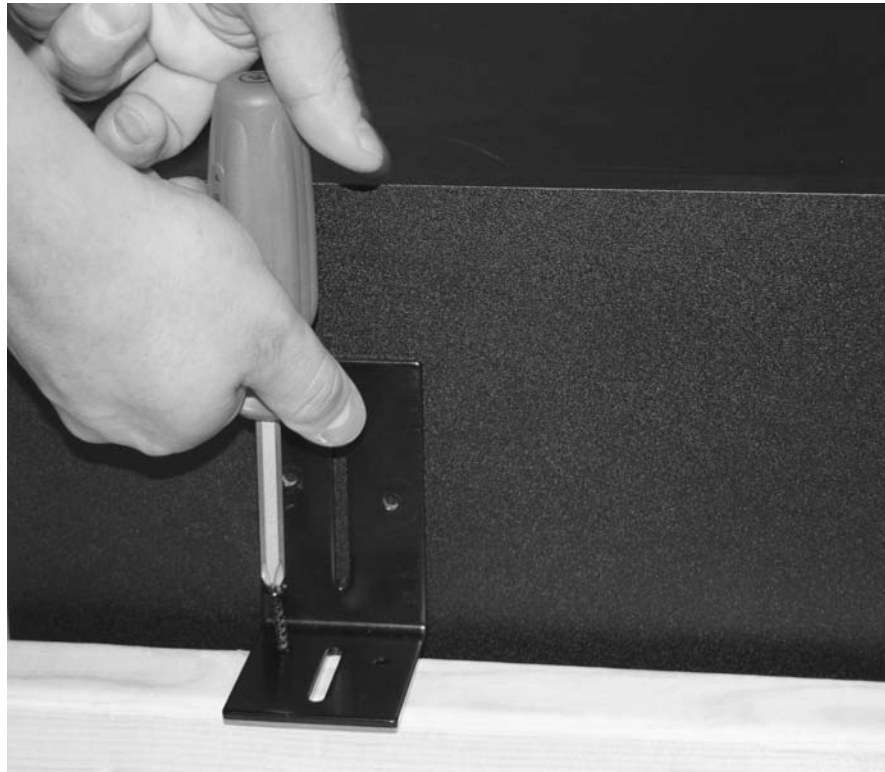


*Figure 4: SC-IF (In-Floor) positioned into floor location.*



### Step 8 -

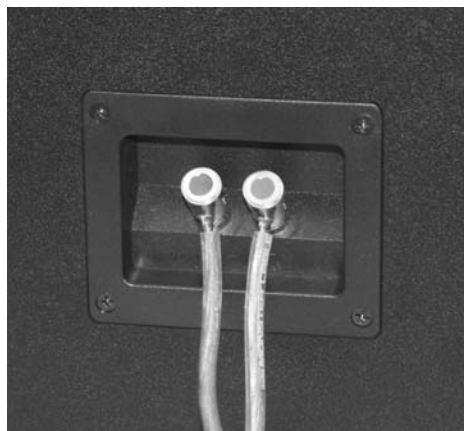
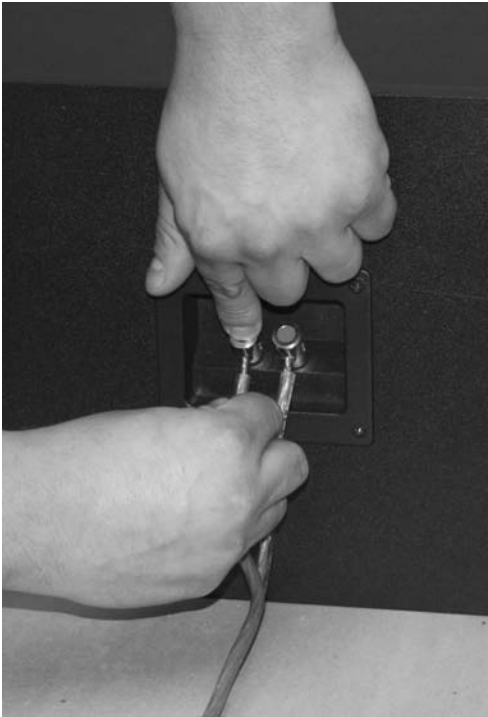
Adjust position and tighten. Position the subwoofer into its final location and tighten the brackets.



*Figure 5: Tighten the brackets.*

### Step 9 -

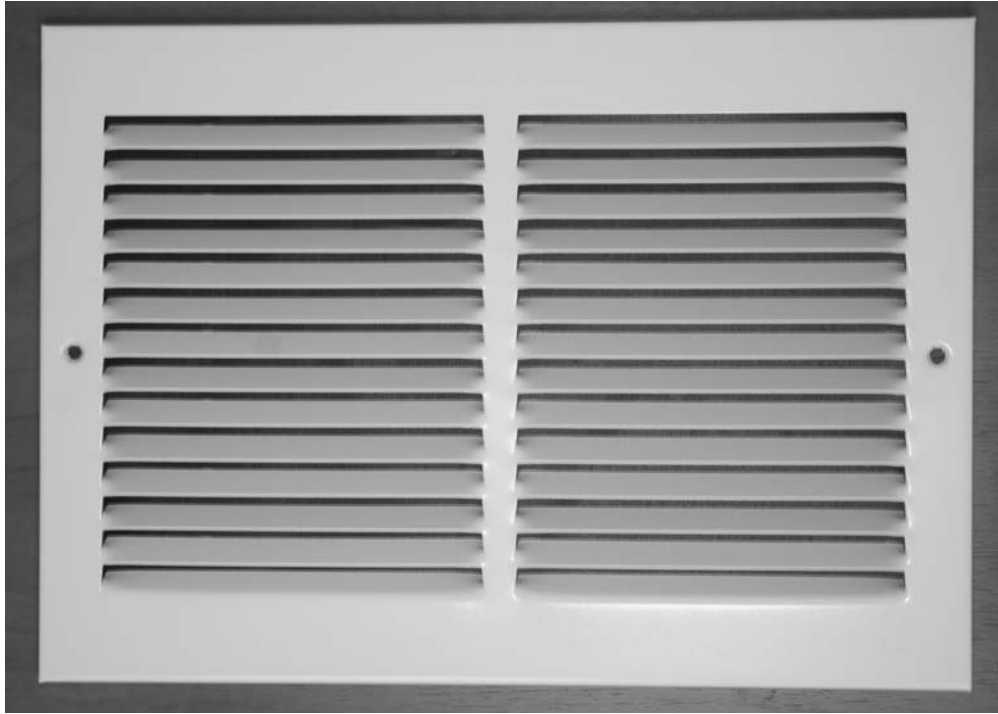
Secure wiring. Attach the speaker wire to the speaker terminals. A 16 AWG or heavier wire is recommended. Be sure to secure the speaker wire so it does not rattle or buzz against the cabinet during use. BE SURE NOT TO CROSS THE SPEAKER WIRES AS THIS CAN DAMAGE THE AMPLIFIER.



*Figure 6a, 6b, and 6c: Speaker wire connection.*

## Step 10 -

Complete installation. Install the decorative grille and perform any other tasks needed to complete the installation based on chosen woofer positioning. It is recommended to use caulking to secure the decorative grille to prevent buzzing and rattling.



*Figure 7: Finished installation with register*

## Step 11 -

Check for rattles and buzzes. Use aggressive bass material and check the subwoofer for buzzes and rattles. These can come from inadequate use of the foam strips, or there may be sympathetic vibration in the structure due to the powerful nature of the SC-IF/IC. In the latter case, track down the rattle and secure it with caulking or other similar material.

**FOR YOUR RECORDS. . .**

Date Purchased \_\_\_\_\_

Dealer \_\_\_\_\_

Serial # \_\_\_\_\_

*\*NOTE: Please complete and return your warranty card within ten (10) days or*

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**LIMITED WARRANTY**

VELODYNE ACOUSTICS, Inc. ("VELODYNE") warrants all electronics and powered subwoofers for a period of two years and full range speakers for a period of five years. All VELODYNE products have a warranty from the date of purchase against defects in materials and workmanship subject to the following conditions:

1. VELODYNE is not responsible for defects which result from the use of an amplifier or controller other than the one originally supplied with the unit (subwoofer) or defects which result from modifications or repairs made by any component of the system by anyone other than a VELODYNE factory authorized service representative.
2. This warranty is void if any repairs or service covered by the terms of this warranty are made to any component of the system by anyone other than a VELODYNE factory authorized service representative.
3. VELODYNE is not responsible for damage caused by accidents, abuse, misuse, natural or personal disaster or unauthorized modification. The VELODYNE products are not intended for professional or commercial use and VELODYNE is not responsible for damage resulting from such use.
4. The VELODYNE product warranty is limited to units that are purchased from authorized VELODYNE dealers and finalized within authorized dealer locations.
5. This warranty is nontransferable under any condition.

**TO OBTAIN SERVICE**

Information regarding service may be obtained from the dealer from whom you purchased the unit, or by contacting VELODYNE customer service. Warranty service must be performed by a VELODYNE factory authorized service representative within the warranty period set forth above. If VELODYNE determines the unit is defective, VELODYNE will, at VELODYNE's option, repair or replace the product at no charge if the product is forwarded prepaid to a factory authorized service representative. Products forwarded to the factory authorized service representative should be shipped securely and properly packaged, insured and freight prepaid.

## OTHER VELODYNE PRODUCTS

### 110V

#### DD® Series

DD-10  
DD-12  
DD-15  
DD-18

**Digital Drive 1812  
Signature Edition**

#### DLS™-R Series

DLS-3500R  
DLS-3750R  
DLS-4000R  
DLS-5000R

#### DPS™ Series

DPS-10  
DPS-12

**MiniVee™**

**SMS™-1**

#### SPL™-R Series

SPL-800R  
SPL-1000R  
SPL-1200R  
SPL-1500R

#### SubContrator™ Series

SC-1250  
SC-8  
SC-10  
SC-12  
SC-15  
SC-IW  
SC-IF/SC-IC

#### VRP Series

VRP-1000  
VRP-1200

#### VX™ Series

VX-10

### 230V

#### DD® Series

DD-10  
DD-12  
DD-15  
DD-18

**Digital Drive 1812  
Signature Edition**

#### CHT-R Series

CHT-8R  
CHT-10R  
CHT-12R  
CHT-15R

**SMS™-1**

**SPL-800i**

#### SPL™-R Series

SPL-800R  
SPL-1000R  
SPL-1200R  
SPL-1500R

#### SubContrator™ Series

SC-1250  
SC-8  
SC-10  
SC-12  
SC-15  
SC-IW  
SC-IF/SC-IC

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63-SCIFC Rev A OCT06